

**CITY OF DANVILLE
PROJECT DESCRIPTION
FY 2011 FIVE-YEAR CIP**

DEPARTMENT/DIVISION: Utilities/Electric Distribution	PROJECT NAME: Hwy 726 Rebuild - VDOT (PL # TBA)
PROJECT SCOPE: Relocate transmission/distribution poles for road improvements	
CURRENT SITUATION: Relocate 2.1 miles of transmission line with distribution underbuild for VDOT road project. Rebuild to be designed for two 556 ACSR distribution lines and one 795 ACSR transmission line constructed to 138 kV standards. This project is mandated by VDOT	
HOW WILL THE COMPLETED PROJECT AFFECT THE CURRENT LEVEL OF SERVICE?	
IS THE PROJECT THE RESULT OF A CITY INITIATED STUDY OR PLAN? IF SO, PLEASE PROVIDE DETAILS OF THE STUDY OR PLAN:	
OTHER COMMENTS:	

Source of Funding	Proj. to Date	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Current Revenues - Reprogrammed Funds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bonds	-	-	2,500,000	-	-	-	2,500,000
Other - Contribution-in-Aid	-	-	-	-	-	-	-
Total	\$ -	\$ -	\$ 2,500,000	\$ -	\$ -	\$ -	\$ 2,500,000

Project description by fiscal year:

Fiscal Year	Description
FY 2011	
FY 2012	Materials & construction
FY 2013	N/A
FY 2014	N/A
FY 2015	N/A

**CITY OF DANVILLE
PROJECT DESCRIPTION
FY 2011 FIVE-YEAR CIP**

DEPARTMENT/DIVISION: Utilities/Electric Distribution	PROJECT NAME: Line Rebuilds and Reconductoring (PL # 60613)
PROJECT SCOPE: Reconductor or three-phasing of various line sections	
CURRENT SITUATION:	
HOW WILL THE COMPLETED PROJECT AFFECT THE CURRENT LEVEL OF SERVICE? Allow areas to be alternately fed or to support future growth.	
IS THE PROJECT MANDATED BY FEDERAL OR STATE REQUIREMENTS? IF SO, PLEASE PROVIDE DETAILS OF THE MANDATE: No	
IS THE PROJECT THE RESULT OF A CITY INITIATED STUDY OR PLAN? IF SO, PLEASE PROVIDE DETAILS OF THE STUDY OR PLAN: 2001 Duke Engineering Study and internal 2007 internal Planning Study.	
OTHER COMMENTS: This project consists of eleven independent subprojects. Each of the subprojects is necessary to either remedy loading or service problems.	

Source of Funding	Proj. to Date	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Current Revenues -							
Reprogrammed Funds	\$ 1,126,650	\$ -	\$ 790,000	\$ 770,000	\$ 480,000	\$ -	\$ 3,166,650
Bonds-General Obligation	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	\$ 1,126,650	\$ -	\$ 790,000	\$ 770,000	\$ 480,000	\$ -	\$ 3,166,650

Project description by fiscal year:

Fiscal Year	Description
FY 2011	
FY 2012	Hwy 726 reconductor (2.5 mi. VDOT project accounted for in spearate project)
FY 2013	Hwy 841 three-phase (2 mi.), Wilkerson Rd three phase (1.25 mi.)
FY 2014	Holland Rd Reconductor (2 mi.)
FY 2015	N/A

**CITY OF DANVILLE
PROJECT DESCRIPTION
FY 2011 FIVE-YEAR CIP**

DEPARTMENT/DIVISION: Utilities/Electric Distribution	PROJECT NAME: Mega Park (PL # TBA)
PROJECT SCOPE: Construction of infrastructure to serve a proposed 3800 acre Industrial Park in the Southwest portion of our service territory. The recommended service package includes a 138 kV transmission line from Riverside Substation to the site as well as a 69 kV transmission line from West Fork Substation to the site. An on site substation with a 138 kV/69 kV/desired delivery voltage autotransformer and a 69 kV/desired delivery voltage transformer will be required.	
CURRENT SITUATION: The City of Danville and Pittsylvania County have partnered on a Mega Industrial Park located in the Southwest portion of our service territory. Service to this location requires a large buildout of necessary infrastructure to accommodate any sizeable load. Projected loads for the Mega Park Complex are in the 30 MVA to 60 MVA range. The most effective option would be to have a 138 kV line normally serve the site and have a 69 kV line serve as the alternate or backup source. The two sources would be independent. The 138 kV line would be routed from Riverside Substation to Schoolfield Substation to the site and terminate at a 138 kV autotransformer. The 69 kV line would be routed from West Fork Substation to the site and terminate at a 69 kV transformer. The service voltage could be taken anywhere from 12 kV to 69 kV.	
HOW WILL THE COMPLETED PROJECT AFFECT THE CURRENT LEVEL OF SERVICE? Economic Development Project	
IS THE PROJECT MANDATED BY FEDERAL OR STATE REQUIREMENTS? IF SO, PLEASE PROVIDE DETAILS OF THE MANDATE: No	
IS THE PROJECT THE RESULT OF A CITY INITIATED STUDY OR PLAN? IF SO, PLEASE PROVIDE DETAILS OF THE STUDY OR PLAN:	
OTHER COMMENTS: This project is contingent on the recruitment of a revenue producing client.	

Source of Funding	Proj. to Date	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Current Revenues - Reprogrammed Funds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bonds	-	-	6,000,000	15,000,000	-	-	21,000,000
Other	-	-	-	-	-	-	-
Total	\$ -	\$ -	\$ 6,000,000	\$ 15,000,000	\$ -	\$ -	\$ 21,000,000

Project description by fiscal year:

Fiscal Year	Description
FY 2011	N/A
FY 2012	Pre-engineering, survey, plan & profile, and easement acquisition
FY 2013	Continue project
FY 2014	N/A
FY 2015	N/A

**CITY OF DANVILLE
PROJECT DESCRIPTION
FY 2011 FIVE-YEAR CIP**

DEPARTMENT/DIVISION: Utilities/Electric Distribution	PROJECT NAME: White Mill Location (PL # TBA)
PROJECT SCOPE: Extend 69 kV from Riverside Substation to site with a parallel 69/12 kV transformer installation to serve a 50 MW load.	
CURRENT SITUATION: The White Mill location was a part of the Dan River Mills Corp. formerly served by Appalachian Power Co. This location is basically an island in our service territory requiring new line construction at 69 kV coupled with construction of a new substation with two 69/12 kV station transformers.	
HOW WILL THE COMPLETED PROJECT AFFECT THE CURRENT LEVEL OF SERVICE?	
IS THE PROJECT MANDATED BY FEDERAL OR STATE REQUIREMENTS? IF SO, PLEASE PROVIDE DETAILS OF THE MANDATE: No	
IS THE PROJECT THE RESULT OF A CITY INITIATED STUDY OR PLAN? IF SO, PLEASE PROVIDE DETAILS OF THE STUDY OR PLAN:	
OTHER COMMENTS: This is an economic development project.	

Source of Funding	Proj. to Date	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Current Revenues -							
Reprogrammed Funds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bonds	-	-	4,200,000	-	-	-	4,200,000
Other - Contribution-in-Aid	-	-	-	-	-	-	-
Total	\$ -	\$ -	\$ 4,200,000	\$ -	\$ -	\$ -	\$ 4,200,000

Project description by fiscal year:

Fiscal Year	Description
FY 2011	N/A
FY 2012	Engineering, land acquisition, permitting, and material acquisition, construction
FY 2013	N/A
FY 2014	N/A
FY 2015	N/A

**CITY OF DANVILLE
PROJECT DESCRIPTION
FY 2011 FIVE-YEAR CIP**

DEPARTMENT/DIVISION: Utilities/Electric Transmissions	PROJECT NAME: Brantley-Airside Transmission Line (PL # TBA)
PROJECT SCOPE: This project includes rebuilding the existing transmission line between the Brantly Substation to the Airside Substation to accommodate the additional load growth and reinforce the transmission system. The project will be constructed in two phases. The first phase is Brantly to Public Works and the second phase will be from Public Works to Airside Substation.	
CURRENT SITUATION: The present transmission line between the Airside and Brantly substations has reached its maximum capacity and has clearance issues when referenced to the current National Electric Safety Code (NESC). Therefore, we are in violation of the NESC, in addition to being unable to reliably serve the load in the eastern section of the service territory. The Brantly to Public Works section is to be constructed as a Phase I because it is required to allow upgrade of the transmission from Brantly/Bridge Street/Riverside to accommodate the White Mill Project. Completion of the transmission upgrade from Public Works to Airside is necessary to fully utilize our 3rd Delivery of 138kv & thereby strengthening the 69kv Transmission System and provide greater reliability.	
HOW WILL THE COMPLETED PROJECT AFFECT THE CURRENT LEVEL OF SERVICE?	
IS THE PROJECT MANDATED BY FEDERAL OR STATE REQUIREMENTS? IF SO, PLEASE PROVIDE DETAILS OF THE MANDATE: No	
IS THE PROJECT THE RESULT OF A CITY INITIATED STUDY OR PLAN? IF SO, PLEASE PROVIDE DETAILS OF THE STUDY OR PLAN: Shaw EDS Shystem Plan and Load Flow Study conducted February 2007.	
OTHER COMMENTS:	

Source of Funding	Proj. to Date	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Current Revenues - Reprogrammed Funds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bonds-General Obligation	2,200,000	-	2,600,000	-	-	-	4,800,000
Other	-	-	-	-	-	-	-
Total	\$ 2,200,000	\$ -	\$ 2,600,000	\$ -	\$ -	\$ -	\$ 4,800,000

Project description by fiscal year:

Fiscal Year	Description
FY 2011	N/A
FY 2012	Material acquisition and construction of section from public Works to Airside Substation
FY 2013	N/A
FY 2014	N/A
FY 2015	N/A

**CITY OF DANVILLE
PROJECT DESCRIPTION
FY 2011 FIVE-YEAR CIP**

DEPARTMENT/DIVISION: Utilities/Electric Transmissions	PROJECT NAME: Westover to Piney Forest Transmission Line Rebuild (PL # TBA)
PROJECT SCOPE: Rebuild 2.5 miles of 69kV transmission line between Piney Forest Substation and Westover Substation. It will be built using Corten steel pole line design to blend in with rural area, which will also provide maintenance free operation.	
CURRENT SITUATION: According to the Strategic Load Flow Study conducted in 2001, this transmission line is 96% loaded during peak system load. With current load growth in the northeastern section of the DP&L service territory and the addition of the Tunstall Substation, this transmission line reaches maximum capacity during the system peak.	
HOW WILL THE COMPLETED PROJECT AFFECT THE CURRENT LEVEL OF SERVICE? The transmission line rebuild would mitigate the possibility of long term failure and outages, in addition to furnishing additional capacity for community development in the area.	
IS THE PROJECT MANDATED BY FEDERAL OR STATE REQUIREMENTS? IF SO, PLEASE PROVIDE DETAILS OF THE MANDATE: No	
IS THE PROJECT THE RESULT OF A CITY INITIATED STUDY OR PLAN? IF SO, PLEASE PROVIDE DETAILS OF THE STUDY OR PLAN:	
OTHER COMMENTS:	

Source of Funding	Proj. to Date	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Current Revenues - Reprogrammed Funds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bonds-General Obligation	-	1,200,000	-	-	-	-	1,200,000
Other	-	-	-	-	-	-	-
Total	\$ -	\$ 1,200,000	\$ -	\$ -	\$ -	\$ -	\$ 1,200,000

Project description by fiscal year:

Fiscal Year	Description
FY 2011	Rebuild transmission Line
FY 2012	N/A
FY 2013	N/A
FY 2014	N/A
FY 2015	N/A

**CITY OF DANVILLE
PROJECT DESCRIPTION
FY 2011 FIVE-YEAR CIP**

DEPARTMENT/DIVISION: Utilities/Electric Substations	PROJECT NAME: 25kV Voltage Conversion (PL # 60654)
PROJECT SCOPE: Reinsulate various line sections for operation at 25 kV	
CURRENT SITUATION: This project consists of seven subprojects. The project covers a large portion of DPL's remote low load density service territory to the east, west, and north. The lines in these areas have small conductors (#2 or #4 ACSR typically) with long tap-lines (4 to 9 miles) and high customer counts (70 to 140). Each of these areas has two sets of voltage regulators in place to maintain voltage within acceptable range. The traditional methods of reconductoring and multi-phasing lines to address growth and quality of service issues are not cost effective solutions at \$170,000 per mile. Re-insulating these areas to operate at 24.9/14.4 kV at \$10,000 to \$12,000 per mile is cost effective.	
HOW WILL THE COMPLETED PROJECT AFFECT THE CURRENT LEVEL OF SERVICE? Operation at 25 kV will improve the voltage profile, decrease load by one half, and reduce losses by one quarter; other operational benefits will be reduced operation and maintenance expenses due to newer and less equipment, and fewer outages due to better co-ordination and protection practices	
IS THE PROJECT MANDATED BY FEDERAL OR STATE REQUIREMENTS? IF SO, PLEASE PROVIDE DETAILS OF THE MANDATE: No	
IS THE PROJECT THE RESULT OF A CITY INITIATED STUDY OR PLAN? IF SO, PLEASE PROVIDE DETAILS OF THE STUDY OR PLAN: Yes. This project was recommended in the 2001 COD/Duke Engineering Strategic Plan Study.	
OTHER COMMENTS:	

Source of Funding	Proj. to Date	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Current Revenues -							
Reprogrammed Funds	\$ 1,342,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,342,000
Bonds-General Obligation	-	-	-	1,500,000	1,600,000	-	3,100,000
Other	-	-	-	-	-	-	-
Total	\$ 1,342,000	\$ -	\$ -	\$ 1,500,000	\$ 1,600,000	\$ -	\$ 4,442,000

Project description by fiscal year:

Fiscal Year	Description
FY 2011	N/A
FY 2012	N/A
FY 2013	Hwy 610 Logtown area, Hwy 119 VIR Area, Phase 1 and 2 Hwy 360 Keeling area, Hwy 647 Axton area, Phase 1 Hwy41 Callands area
FY 2014	Hwy 622 Cascade area, Hwy 58 VIR Area, Phase 3 and 4 Hwy 360 Keeling area, Phase 2 Hwy41 Callands area, Hwy 58 Axton Area, Hwy 862/621 Area, Hwy 863 Berry Hill Area
FY 2015	N/A

**CITY OF DANVILLE
PROJECT DESCRIPTION
FY 2011 FIVE-YEAR CIP**

DEPARTMENT/DIVISION: Utilities/Electric Substations	PROJECT NAME: Pinnacles Transformer Replacement (PL # 60498)
PROJECT SCOPE: Upgrade and replace the existing 60-year old transformers located in the Pinnacles Hydro Substation at the generator power house.	
CURRENT SITUATION: The existing transformers are not able to handle the rebuilt generator capacities and run hot. The units are 60 years old and we test them annually to ensure that they are not in a condition of eminent failure. With our ability to sell power on the open market, we need to insure the operation of these transformers.	
HOW WILL THE COMPLETED PROJECT AFFECT THE CURRENT LEVEL OF SERVICE? The transformer replacements allow use of maximum generation and longer generating periods without the risk of a transformer failure, consequently increasing generating revenues.	
IS THE PROJECT MANDATED BY FEDERAL OR STATE REQUIREMENTS? IF SO, PLEASE PROVIDE DETAILS OF THE MANDATE: No	
IS THE PROJECT THE RESULT OF A CITY INITIATED STUDY OR PLAN? IF SO, PLEASE PROVIDE DETAILS OF THE STUDY OR PLAN: No	
OTHER COMMENTS:	

Source of Funding	Proj. to Date	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Current Revenues - Reprogrammed Funds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bonds-General Obligation	-	1,500,000	-	-	-	-	1,500,000
Other	-	-	-	-	-	-	-
Total	\$ -	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000

Project description by fiscal year:

Fiscal Year	Description
FY 2011	Replace old transformers
FY 2012	N/A
FY 2013	N/A
FY 2014	N/A
FY 2015	N/A

**CITY OF DANVILLE
PROJECT DESCRIPTION
FY 2011 FIVE-YEAR CIP**

DEPARTMENT/DIVISION: Utilities/Electric-Load Management	PROJECT NAME: Distribution Automation System (PL # 60402)
<p>PROJECT SCOPE: This project expands real-time monitoring and control of the entire electric system down to the customer level. The upgraded SCADA system dynamically displays the entire transmission and distribution system in real-time and incorporates automatic distribution field device switching based on real-time operating parameters without human intervention, reducing power outages to minutes compared to hours for the portions of the distribution system that are not directly affected by the outage. The OMS continuously monitors the distribution system and reports any anomalies to the System Operator. The Outage Management System also has the ability to provide suggested switching solutions for line sections that do not have automated field switches. This feature enables faster response and switching orders based on actual pre-outage conditions rather than "standing switching orders" to transfer load. The interface to the Interactive Voice Response system provides real-time customer service status; automates customer call back; automates crew call outs; and provides advanced trouble-order management with historical data archiving of each customer's service status.</p>	
<p>CURRENT SITUATION: Presently all outages and service interruptions are determined by the customer's telephone call into the Operation Center. The customer's service location is determine by referencing the legacy customer service information and paper service area maps. After the location is determined the Line crew or Service Crew is dispatched to the outage location.</p>	
<p>HOW WILL THE COMPLETED PROJECT AFFECT THE CURRENT LEVEL OF SERVICE? T</p>	
<p>IS THE PROJECT MANDATED BY FEDERAL OR STATE REQUIREMENTS? IF SO, PLEASE PROVIDE DETAILS OF THE MANDATE: No</p>	
<p>IS THE PROJECT THE RESULT OF A CITY INITIATED STUDY OR PLAN? IF SO, PLEASE PROVIDE DETAILS OF THE STUDY OR PLAN: No</p>	
<p>OTHER COMMENTS:</p>	

Source of Funding	Proj. to Date	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Current Revenues - Reprogrammed Funds	\$ 680,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 680,000
Bonds-General Obligation	-	-	1,000,000	1,250,000	-	-	2,250,000
Other	-	-	-	-	-	-	-
Total	\$ 680,000	\$ -	\$ 1,000,000	\$ 1,250,000	\$ -	\$ -	\$ 2,930,000

Project description by fiscal year:

Fiscal Year	Description
FY 2011	N/A
FY 2012	Provide approximately 50 upgrades to distribution field devices at \$20,000 each
FY 2013	Provide approximately 65 upgrades to distribution field devices at \$20,000 each
FY 2014	N/A
FY 2015	N/A

**CITY OF DANVILLE
PROJECT DESCRIPTION
FY 2011 FIVE-YEAR CIP**

DEPARTMENT/DIVISION: Utilities/Electric-Load Management	PROJECT NAME: Meter Data Management System (MDMS) (PL # TBA)
PROJECT SCOPE: Implementataion of MDMS and Analytics System	
CURRENT SITUATION: The AMI project will allow the City to offer Time-Of-Use and Demand side management rates to its customer base. In order to develop these rates we need a miniumum of data at a minium of one hour increments or less. Meter Data Analytics will deliver extensive reports to Utilities and our customers. It can monitor load, track energy usage and implement demand corrective steps. It will allow Utilities to monitor quality and quantity of energy consumption for achieving increased enery efficiency. The MDMS is fairly new on the market and with an increased number of AMI projects the City expects the cost of the system and implementation to become less expensive as technology advances.	
HOW WILL THE COMPLETED PROJECT AFFECT THE CURRENT LEVEL OF SERVICE? T	
IS THE PROJECT MANDATED BY FEDERAL OR STATE REQUIREMENTS? IF SO, PLEASE PROVIDE DETAILS OF THE MANDATE: No	
IS THE PROJECT THE RESULT OF A CITY INITIATED STUDY OR PLAN? IF SO, PLEASE PROVIDE DETAILS OF THE STUDY OR PLAN: No	
OTHER COMMENTS:	

Source of Funding	Proj. to Date	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Current Revenues - Reprogrammed Funds	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ 350,000
Bonds-General Obligation	-	-	1,500,000	-	-	-	1,500,000
Other	-	-	-	-	-	-	-
Total	\$ -	\$ 350,000	\$ 1,500,000	\$ -	\$ -	\$ -	\$ 1,850,000

Project description by fiscal year:

Fiscal Year	Description
FY 2011	Outsource the MDMS program for one year
FY 2012	Implement City's MDMS and Analytics
FY 2013	N/A
FY 2014	N/A
FY 2015	N/A

**CITY OF DANVILLE
PROJECT DESCRIPTION
FY 2011 FIVE-YEAR CIP**

DEPARTMENT/DIVISION: Utilities/Electric - Miscellaneous	PROJECT NAME: Cityworks (PL # 60646)
PROJECT SCOPE: Implementation of Phase III of an Asset Management Program with GIS functionality	
<p>CURRENT SITUATION: In 2009 we implemented the Service Request Module. This enables Utilities and Public Works to better track customer calls and requests for services. The first phase was critical because the current program-Legacy Mainframe had become obsolete. Phase II of the project in 2010 will implement the standard maintenance work orders. These work orders are used to track the labor, vehicle usage and materials costs for the repairs, and replacement and maintenance of all the existing Utilities and Public Works infrastructure. Each Work order will be mapped to the GIS system. Phase III will complete the implementation of the work orders system that will track all the labor, vehicle and material costs for all CIP projects and customer services requests (billed). This phase we will also address Inventory Control Planning and Fleet/Equipment Controls. Phase IV we anticipate implementing mobile deployment and add production enhancing applications such as Scheduler.</p>	
HOW WILL THE COMPLETED PROJECT AFFECT THE CURRENT LEVEL OF SERVICE?	
IS THE PROJECT MANDATED BY FEDERAL OR STATE REQUIREMENTS? IF SO, PLEASE PROVIDE DETAILS OF THE MANDATE: No	
IS THE PROJECT THE RESULT OF A CITY INITIATED STUDY OR PLAN? IF SO, PLEASE PROVIDE DETAILS OF THE STUDY OR PLAN: Yes. We have hired Plexus to guide us through to identify what this technology will be.	
OTHER COMMENTS:	

Source of Funding	Proj. to Date	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Current Revenues - Reprogrammed Funds	\$ 794,317	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ 1,144,317
Bonds-Lease/Revenue	-	-	-	-	-	-	-
Unreserved Fund Bal	-	-	-	-	-	-	-
Total	\$ 794,317	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ 1,144,317

Project description by fiscal year:

Fiscal Year	Description
FY 2011	Inventory Control planning, Fleet & Eqpt Control & Utilities & P/W Construction & Engineering Work
FY 2012	Mobile Deployment, Productivity Enhancing Applications
FY 2013	N/A
FY 2014	N/A
FY 2015	N/A

**CITY OF DANVILLE
PROJECT DESCRIPTION
FY 2011 FIVE-YEAR CIP**

DEPARTMENT/DIVISION: Utilities/Electric-Miscellaneous	PROJECT NAME: Energy Efficiency and Conservation Project (PL # 90100)
PROJECT SCOPE: See Next Page	
HOW WILL THE COMPLETED PROJECT AFFECT THE CURRENT LEVEL OF SERVICE? Benefits include reduced energy expenses city-wide, reduced rental residential energy bills, greater response rates due to branding and message consistency across multiple media, local resources for energy auditing services adequate to serve current and future requests for such services, and multiple 'shovel ready' opportunities for additional federal funding should such funding become available. Without this project, current energy efficiency efforts will eventually stagnate and the public will continue to have little or no access to energy auditing services, and in a blind effort to find energy solutions, the general public will continue to be susceptible to energy related 'fly-by-night' opportunities and scams that are now becoming more common nationwide.	
OTHER COMMENTS: This is a non-capital project. It is included in the Capital Improvement Plan in order to carryforward to the next fiscal year any unexpended funds.	

Source of Funding	Proj. to Date	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Current Revenues -							
Reprogrammed Funds	\$ 225,000	\$ 177,300	\$ -	\$ -	\$ -	\$ -	\$ 402,300
Bonds-General Obligation	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-
Total	\$ 225,000	\$ 177,300	\$ -	\$ -	\$ -	\$ -	\$ 402,300

Project description by fiscal year:

Fiscal Year	Description
FY 2011	Energy Efficiency and Conservation Project
FY 2012	N/A
FY 2013	N/A
FY 2014	N/A
FY 2015	N/A

DEPARTMENT/DIVISION: Utilities/Electric Miscellaneous

PROJECT NAME: Energy Efficiency & Conservation Project (PL #90100)

PROJECT SCOPE:

In comparing money spent on weatherization and efficiency versus that spent on utility bill assistance, weatherization and efficiency yields a 7-fold return versus a one-time helping hand. With this in mind, it is Danville Utilities' intention to increase our local efforts that focus on energy efficiency and conservation. Included in this Energy Efficiency project are efforts to increase our conservation and efficiency awareness to the public through additional radio and print advertising, monthly utility bill inserts, and the use of consulting services to assist in message and branding consistency across all media types. Using assistance from outside consulting services, we look to create a Strategic Energy Plan for the City of Danville to be used as a guide to all city departments when making energy related decisions. This plan will include information relating to the City of Danville facilities as well as guidance for external programs.

Rental properties account for a high percentage of Danville's housing stock. Of those rental properties, the majority are occupied by low and moderate income residents. These residents have little or no control over improvements to their facility due to lack of funds and lack of property ownership. The landlord or property owner has the control over the improvements, but they have little financial incentive to make energy improvements for the benefit of their tenants. To assist in addressing this issue, Danville Utilities plans to work in cooperation with the Community Development Inspections Division to fund energy efficiency improvements to facilities in the areas of greatest need currently targeted by the new Rental Inspection Program and expanding to other areas as funding is available and documented success are achieved. We intend to recover the improvement costs over a 10-year period from the landlord and/or tenant. The benefit to the tenant will be greater energy efficiency and lower utility bills.

Education will play a significant role in the success of these efforts. With more efficient facilities, behavioral changes of the facility operators must be addressed in order to maximize the benefits of the upgrades. Those currently focused on energy efficient operations must be encouraged to maintain or increase those efforts. Those who currently exhibit little or no focus on operating in an energy efficient manner must be educated and encouraged to do so. These educational efforts will be administered through a variety of coordinated community efforts.

Due to failed efforts to encourage local businesses to obtain training and offer such services, Danville Utilities also will add additional energy auditing services to its offerings. Danville Utilities will train and obtain appropriate certifications for identified engineering staff to perform facility energy evaluations. Additional software and equipment will be needed to perform these additional duties properly.

All of the above additional efforts will be in addition to the current and ongoing efforts undertaken to address energy costs and efficiencies.

**CITY OF DANVILLE
PROJECT DESCRIPTION
FY 2011 FIVE-YEAR CIP**

DEPARTMENT/DIVISION: Utilities/Electric-Miscellaneous	PROJECT NAME: Operations Center (PL # 60085)
PROJECT SCOPE: This project is to provide funding for upgrades to the Utility Service Complex which includes relocation of the main driveway entrance to Dan St. and renovation of the existing warehouse space for use as a crew meeting area and locker room.	
CURRENT SITUATION: Existing complex located in floodplain, which prohibits expansion. Staff and operations have exceeded available space.	
HOW WILL THE COMPLETED PROJECT AFFECT THE CURRENT LEVEL OF SERVICE?	
IS THE PROJECT MANDATED BY FEDERAL OR STATE REQUIREMENTS? IF SO, PLEASE PROVIDE DETAILS OF THE MANDATE: No	
IS THE PROJECT THE RESULT OF A CITY INITIATED STUDY OR PLAN? IF SO, PLEASE PROVIDE DETAILS OF THE STUDY OR PLAN: No	
OTHER COMMENTS: This project is a multi-year project which requires funding beyond the scope of this CIP.	

Source of Funding	Proj. to Date	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Current Revenues -							
Reprogrammed Funds	\$ 1,350,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,350,000
Bonds-General Obligation	-	1,500,000	1,500,000	1,500,000	1,500,000	-	6,000,000
Other	-	-	-	-	-	-	-
Total	\$ 1,350,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ -	\$ 7,350,000

Project description by fiscal year:

Fiscal Year	Description
FY 2011	Renovation of Monument St. Building
FY 2012	Renovation of Monument St. Building
FY 2013	Renovation of Monument St. Building
FY 2014	Renovation of Monument St. Building
FY 2015	N/A